

P Piper methysticum

Common Name(s)

Kava-Kava

How Used

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Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	(+)-5-6-7-8-TETRAHYDROYANGONIN	Rhizome	--	3		
0	11,12-DIMETHOXYDIHYDROKAWAIN	Rhizome	--	--		
0	11,12-DIMETHOXYDIHYDROKAWAIN	Root	--	22		
0	11,12-DIMETHOXYDIHYDROKAWAIN	Plant	--	--		
0	11-HYDROXY-12-METHOXYDIHYDROKAWAIN	Root	--	9		
0	11-HYDROXY-12-METHOXYDIHYDROKAWAIN	Plant	--	--		
0	11-HYDROXY-YANGONIN	Root	--	--	Leung, A. Y. and Foster, S.	1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	11-METHOXY-12-HYDROXY-DEHYDROKAWAIN	Root	--	--	Leung, A. Y. and Foster, S.	1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	11-METHOXYNORYANGONIN	Plant	--	--		
0	11-METHOXYNORYANGONIN	Rhizome	--	--		
0	11-METHOXYANGONIN	Plant	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.	
0	11-METHOXYANGONIN	Rhizome	--	--		
0	2',4'-DIMETHYLCHALCONARINGENIN	Plant	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.	
0	2-METHOXYCINNAMIC-ACID-PYRROLIDIDE	Rhizome	--	--	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.	
0	3,4-(METHYLENE-DIOXY)CINNAMYLIDENACETOL	Plant	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.	
3	3,4-METHYLENE-DIOXYCINNAMIC-ACID-BORNYL-ESTER	Root	--	30		
0	3,4-METHYLENEDIOXY-CINNAMYLIDENEACETONE	Resin, Exudate, Sap	--	25450		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	4-OXO-N-NANANOIC-ACID	Rhizome	--	--	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.	
0	5,6,7,8-TETRAHYDROYANGONIN	Rhizome	--	--		
0	5,6,7,8-TETRAHYDROYANGONIN	Plant	--	--	J.S. Glasby Dict.Pls Containing 2ndary Metabolite.	1991.
5	5,6-DEHYDROKAWAIN	Plant	--	--	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London.	791 pp.
5	5,6-DEHYDROKAWAIN	Leaf	--	--		
0	5,6-DIHYDROYANGONIN	Root	--	--		
1	5,7-DIMETHOXYFLAVONE	Root	--	40		
0	5-DIHYDROYANGONIN	Plant	--	--		
0	7,8-DIHYDROYANGONIN	Root	--	--	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York.	649 pp.
0	7-8-DIHYDROKAWAIN	Rhizome	--	--		
0	7-8-DIHYDROKAWAIN	Plant	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
6	ANISIC-ACID		Rhizome --	--		Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
0	ASH		Root --	32000	-1.0153986345301809	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
20	BENZOIC-ACID		Rhizome --	--		Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
20	BENZOIC-ACID		Plant --	--		CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
47	BETA-SITOSTEROL		Root --	166000	3.7415916306490002	
47	BETA-SITOSTEROL		Leaf --	--		
47	BETA-SITOSTEROL		Rhizome --	--		
2	CAMPESTEROL		Rhizome --	--		
0	CAPRONIC-ACID		Rhizome --	--		Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
0	CEPHARADIONE-A		Root --	2		
1	CHOLESTEROL		Rhizome --	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	CINNAMALACETONE	Resin, Exudate, Sap	--	64550		
0	CINNAMALACETONE	Rhizome	--	--	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.	
0	CINNAMALAKETONE	Root	--	--	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.	
18	CINNAMIC-ACID	Rhizome	--	--	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.	
18	CINNAMIC-ACID	Plant	--	--	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses	
3	CINNAMIC-ACID-BORNYL-ESTER	Root	--	300		
0	CINNAMIC-ACID-PYRROLIDIDE	Plant	--	--		
0	CINNAMIC-ACID-PYRROLIDIDE	Rhizome	--	--	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	CINNAMYLIDENACETOL	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	COMPOUND-A	Root	--	90		
0	DEHYDROKAWAIN	Root	--	--		
0	DEHYDROKAWAIN	Resin, Exudate, Sap	--	11100		
0	DEHYDROKAWAIN	Stem	--	--		
0	DEHYDROMETHYSTICIN	Plant	--	--		
0	DEMETHOXYYANGONIN	Root	--	--		
0	DEMETHOXYYANGONIN	Rhizome	--	--		
0	DEMETHOXYYANGONIN	Stem	--	--		
0	DEMETHOXYYANGONIN	Plant	--	--		
0	DEMETHOXYYANGONIN	Leaf	--	--		
0	DESMETHOXYYANGONIN	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	DESMETHOXYYANGONIN	Rhizome	--	10000		Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.

Chemical	Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
14	DIHYDROKAWAIN	Plant	--	--			
14	DIHYDROKAWAIN	Rhizome	6000	10500			
14	DIHYDROKAWAIN	Root	--	740			
14	DIHYDROKAWAIN	Stem	--	--			
14	DIHYDROKAWAIN	Leaf	--	--			
0	DIHYDROKAWAIN-5-OL	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.	
0	DIHYDROKAWAIN-5-OL	Rhizome	--	--			
18	DIHYDROMETHYSTICIN	Rhizome	5000	8500			
18	DIHYDROMETHYSTICIN	Root	--	160			
18	DIHYDROMETHYSTICIN	Plant	--	--			
18	DIHYDROMETHYSTICIN	Leaf	--	--			
18	DIHYDROMETHYSTICIN	Stem	--	--			
0	DIMETHOXYKAVAIN	Plant	--	--			
0	DOCOSAN-1-OL	Rhizome	--	--			
0	DOCOSANOL	Root	--	2000			
0	DODECAN-1-OL	Rhizome	--	--			
0	EICOSAN-1-OL	Rhizome	--	--			
1	EICOSANOL	Root	--	2100			

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
15	FIBER	Root	--	200000	2.4848485237263582	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	FLAVOKAVIN-A	Plant	--	--		
0	FLAVOKAVIN-A	Root	--	--		Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
0	FLAVOKAVIN-B	Plant	--	--		
0	FLAVOKAVIN-B	Root	--	--		Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
0	FLAVOKAVIN-C	Plant	--	--		
0	FLAVOKAWAIN	Root	--	200		
0	FLAVOKAWAIN-C	Plant	--	200		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
0	FLAVOKAWIN-A	Leaf	--	--		
0	FLAVOKAWIN-A	Root	--	--		
0	FLAVOKAWIN-A	Rhizome	--	--		
0	FLAVOKAWIN-A	Plant	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	FLAVOKAWIN-A	Resin, Exudate, Sap	--	1620		
0	FLAVOKAWIN-B	Resin, Exudate, Sap	--	1400		
0	FLAVOKAWIN-B	Plant	--	--		
0	FLAVOKAWIN-B	Rhizome	--	--		
0	FLAVOKAWIN-B	Leaf	--	--		
0	FLAVOKAWIN-C	Root	--	--		
0	FLAVOKAWIN-C	Rhizome	--	--		
8	FRUCTOSE	Root	--	--	Leung, A. Y. and Foster, S.	1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
7	GLUCOSE	Root	--	--	Leung, A. Y. and Foster, S.	1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	HEXADECAN-1-OL	Rhizome	--	--		
1	HEXADECANOL	Root	--	3600		
0	HYDROXYCINNAMIC-ACID	Rhizome	--	--	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds.	1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	HYDROXYKAWAIN	Plant	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	KAVALACTONES	Root	30000	200000		
29	KAWAIN	Root	--	306		
29	KAWAIN	Stem	--	--		
29	KAWAIN	Plant	--	--		
29	KAWAIN	Resin, Exudate, Sap	--	33800		
29	KAWAIN	Rhizome	9300	12000		
29	KAWAIN	Leaf	--	--		
0	KAWAINIC-ACID	Plant	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	M-METHOXYCINNAMIC-ACID-PYRROLIDIDE	Plant	--	--		
2	MALTOSE	Root	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	METHYLENE-DIOXY-3,4-CINNAMOYLACETONE	Rhizome	--	--	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.	
0	METHYLENE-DIOXY-3,4-CINNAMOYLKETONE	Root	--	--	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.	
18	METHYSTICIN	Leaf	--	7100		
18	METHYSTICIN	Root	--	140		
18	METHYSTICIN	Plant	--	--		
18	METHYSTICIN	Resin, Exudate, Sap	--	22200		
18	METHYSTICIN	Rhizome	12000	13400		
18	METHYSTICIN	Stem	--	--		
0	OCTADECAN-1-OL	Rhizome	--	--		
0	OCTADECANOL	Root	--	5300		
9	OXALIC-ACID	Root	--	--	Madaus, G. 1976. Lehrbuch der Biologischen Hilfsmittel. Vol., 1-3. 2862 pp. (+ 144 p. index). Georg Olms Verlag, Hildesheim. Reprint of 1938 Madaus.	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	P-METHOXY-PHENYL-ACETIC-ACID	Rhizome	--	--	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.	
2	PHENYLACETIC-ACID	Rhizome	--	--	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.	
6	PINOSTROBIN	Root	--	70		
0	PIPERMETHYSTINE	Leaf	--	1700		
0	PIPERMETHYSTINE	Plant	--	--	J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.	
0	PROTEIN	Root	--	36000 -0.925459680358799	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.	
0	RESIN	Root	--	53000 1.582097407375253	Madaus, G. 1976. Lehrbuch der Biologischen Hilfsmittel. Vol., 1-3. 2862 pp. (+ 144 p. index). Georg Olms Verlag, Hildesheim. Reprint of 1938 Madaus.	
0	RESINIC-ACID	Root	--	233000	Madaus, G. 1976. Lehrbuch der Biologischen Hilfsmittel. Vol., 1-3. 2862 pp. (+ 144 p. index). Georg Olms Verlag, Hildesheim. Reprint of 1938 Madaus.	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
5	STARCH	Root	--	430000	0.47798800143335857	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	STIGMASTANOL	Rhizome	--	--		
0	STIGMASTEN-4,3,6-DIONE	Plant	--	--		
0	STIGMASTENDIONE	Plant	--	--		
12	STIGMASTEROL	Rhizome	--	--		
14	SUCROSE	Root	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	SUGARS	Root	--	32000	-0.6957589764007501	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	TETRACOSAN-1-OL	Rhizome	--	--		
0	TETRACOSANOL	Root	--	3200		
0	TETRADECAN-1-OL	Rhizome	--	--		
0	TETRAHYDROYANGONIN	Root	--	--		
0	TETRAHYDROYANGONIN	Plant	--	--		
0	TETRAHYDROYANGONIN	Stem	--	--		
0	TRANS-PHYTOL	Rhizome	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	TRANS-PHYTOL	Root	--	10500		
0	WATER	Root	--	120000	-4.249475521429359	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	YANGONIN	Rhizome	--	--		
12	YANGONIN	Root	--	280		
12	YANGONIN	Plant	--	--		
12	YANGONIN	Rhizome	6800	10000		
12	YANGONIN	Leaf	--	--		
12	YANGONIN	Resin, Exudate, Sap	--	43300		
12	YANGONIN	Stem	--	--		
0	YANGONIN-I	Plant	--	--		
0	YANGONIN-II	Plant	--	--		
0	YANGONIN-III	Plant	--	--		